

STEERING COMMITTEE MEETING NOTES

STEERING Committee Meeting July 1, 2003

Attendees:

Adam Arkin, Terry Hazen, Anup Singh, Judy Wall, David Stahl, Melissa Ramos and Nancy Slater.

PROGRESS:

- Annual Retreat – Please send registration forms to Melissa.
- Project Schedule – The Project Schedule will be posted on the Discussion Board. Please send updates to Nancy. Nancy will send the project schedule format to Anup.
- Web updates: We need to post presentations and publications to the VIMSS site.
 - QC Issues: error in annotations file – the names of the files were switched. ORNL created Oligos for the Geobacter; can be used in the future; the ORNL Oligos software is buggy; we should go back & forth and verify other work; #1. QC is important; #2 We have tools that make sure that Oligos are correct; Protocols should be uploaded in a timely manner. Anup does not have a way of comparing info.
- We reference the TIGR ORF #s.
 - * We need to find out exactly what ORF Joe is using.

* Judy's QC info

- She uses LS medium to detect other microbes in the culture.
- Judy found Enterococcus in her culture.
- HECC recommends BARS media and Terry uses it; Doubling curves are posted on the VIMSS website.
- She runs PCR for nitrate reductase to QC.
- Terry and Judy don't know how to get around sparging.

David: PT2

- When they sparge Nitrogen it clumps and they stop and goes into solution;
- He will check on the Nitrogen quality; The clumping may be due to the flow rate; the pH is controlled.
- We still have biomass issues.
- Terry is looking sparging and measuring dissolved O₂ done by next week; He will post all of the growth curves on the web.
- Sent from NBIR samples and David did not receive a spec sheet; David doesn't see sulfate reduction yet; he received from M.F. from FRC site;
- Working co-cultures optimizing culture conditions; PT2 & Hildenbroro test does better and not as inhibited by salt; looked at these 2 strains;

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PT2 & Hildenboro

- David wants to estimate co-culture in chemostat
- David can provide biomass for D.V. to others if they would like it.
- D. 96-98% related PT2 to Hildenboro; what we learn from sequencing? \$3000/10kb. This would have to be done by someone else – a subcontractor (could Eddy do this for us?).
- Pass the material to Anup & Jay from David and they can use the same genome; looked at array data first; look at DNA-DNA hybridization may be an option.
- David will contact ERCO; he will provide biomass.
- We need to settle on one condition and we should run some experiment this month and come to a conclusion by Annual Retreat – bring growth curve to Annual Retreat.
- Comp 1st prototype with genome browser.
- We are doing analyses correlation of gene expression; our 1st exp. comparative papers; plt and heat shock is the focus right now; Database of 700 microarrays; issues with the way people define heat shock and other stressors.
- ICAT & 2-D gels are ways Anup is measuring heat shock; running proteins on multi off.

Anup Singh

- ICAT PRO Applied Biosystems is full of bugs – it missed a lot of things.
- Protein complex: using antibodies HS 70 & RECA and they bind to proteins grow larger quantities to make sure they get binding effect.
- Judy has HSBC tags for E.Coli and will send it to Anup this week.
- Judy will present for Gordon conference stress response and metal regulation Hg, Cu, Arsenic. Biofilms session will also be at conference; also biodiversity sessions.

End of Report